



Department of Energy

Richland Operations Office P.O. Box 550 Richland, Washington 99352

APR 17 2006

Reissue

06-AMRC-0177

Mr. Nicholas Ceto, Program Manager Office of Environmental Cleanup Hanford Project Office U.S. Environmental Protection Agency 309 Bradley Blvd, Suite 115 Richland, Washington 99352

Ms. Jane Hedges, Manager Nuclear Waste Program State of Washington Department of Ecology 3100 Port of Benton Blvd. Richland, Washington 99352 DECEIVED)

APR 19 2006

EDMC

Addressees:

REGULATOR APPROVAL OF HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT ORDER (HFFACO) TRI-PARTY AGREEMENT (TPA) CHANGE NOTICE TPA-CN-151 MODIFICATION TO THE SITE-WIDE INSTITUTIONAL CONTROLS PLAN PER 221-U RECORD OF DECISION COMMITMENT

The purpose of this letter is to gain the regulator's approval of a change notice that documents a modification being made to the Sitewide Institutional Controls (IC) Plan in order to implement the requirements of the 221-U Facility Record of Decision (ROD) and to adjust the frequency of future assessments based upon the results of past assessments. The Record of Decision 221-U Facility (Canyon Disposition Initiative) Hanford Site, Washington, was approved by the U.S. Environmental Protection Agency (EPA) on September 30, 2005. The 221-U Facility ROD requires in Section 2.12.2.3 that the Sitewide Institutional Controls Plan for Hanford CERCLA Response Actions, DOE/RL-2001-41, be updated within 180 days (March 29, 2006) with the institutional controls contained in the ROD. The regulators are requested to approve the attached change notice that is being processed in accordance with the requirements of the Hanford Federal Facility Agreement and Consent Order (HFFACO) section 9.3, DOCUMENT REVISIONS, and is considered a minor change. Per discussion with Craig E. Cameron, EPA, this change notice will undergo a 45-day regulatory agency review and response period. This TPA change notice update will keep the Sitewide IC Plan current with the latest institutional controls proposed in the 221-U Facility ROD. The plan specifies how the institutional controls are implemented and maintained. No impacts are anticipated as a result of this modification to the Sitewide IC Plan.

If you have any further questions, please contact me or your staff may contact David T. Evans, Acting Assistant Manager for the River Corridor, at (509) 373-9278.

Sincerely,

Keith A. Klein

Manager

AMRC:JPS

Attachment

cc w/attach:

- G. Bohnee, NPT
- R. Bond, Ecology
- C. Cameron, EPA
- L. Fritz, FHI
- S. Harris, CTUIR
- J. Hyatt, FHI
- R. Jim, YN
- T. Martin, HAB
- K. Niles, ODOE
- R. Piippo, FHI
- J. Price, Ecology
- F. Ruck, FHI
- E. Yancey, FHI

Administrative Record H6-08, Institutional Controls Plan Environmental Portal, LMSI



Change Notice for Modifying Approved Documents/ Workplans In Accordance with the Tri-Party Agreement Action Plan, Section 9.0, Documentation and Records

Change Number	Document Submitted Under	Date:	
TPA-CN-151	Tri-Party Agreement Milestone <u>NONE</u>	March 8, 2006	
Document Number and Title: DOE/RL-2001-41, Rev 0, Sitewide In	stitutional Controls Plan	Date Document Last Issued: July 2002	
Originator: John P. Sands U.S. Do			
	tutional controls required by the 221-U Facility (Car Sitewide Institutional Controls (IC) Plan.	nyon Disposition Initiative) Record of	
	ld the following Tables A.5.1 and A.5.2 to the Siteward Property Roperator of the Property Roper	ide IC Plan. These tables present the	
	O Institutional Control Requirements (Required During) Institutional Control Requirements (Required After		
These tables include the text of the ins Sitewide IC Plan that explains how the	stitutional control requirements contained in the 221- e requirements are met.	U Facility ROD and the section of the	
A new section will also be added to the	e Sitewide IC Plan. The new section is Section 2.2.	5 and will address barriers.	
Finally a change will also be made to years.	Section 4.2 of the Sitewide IC Plan to adjust the frequency	uency of future assessments to five	
See page 2 for	details of modifications to be made.		
Justification and Impacts of Change	e:		
This modification is made to the Sitewide IC Plan in order to implement the requirements of the 221-U Facility ROD and to adjust the frequency of future assessments based upon the results of past assessments. The Record of Decision 221-U Facility (Canyon Disposition Initiative) Hanford Site, Washington, was approved by EPA on September 30, 2005. The 221-U Facility ROD requires in section 2.12.2.3 that the Sitewide Institutional Controls Plan for Hanford CERCLA Response Actions, DOE/RL-2001-41, be updated within 180 days with the institutional controls contained in the ROD. This update will keep the Sitewide IC Plan current with the latest institutional controls approved in the 221-U Facility ROD. The plan specifies how the institutional controls are implemented and maintained. No impacts are anticipated as a result of this modification to the Sitewide IC Plan.			
Approvals: send approved form to F	FH TPA, H8-12 & Administrative Record. H6-08		
RL Project Manager*	9/17/06 VAppro	vedDisapproved	
Regulatory Project Manager*	Appro	ved Disapproved	
Regulatory Project Manager*	Appro	ved Disapproved	

Tri-Party Agreement Change Notice TPA-CN-151

The following Tables are hereby added to the Sitewide Institutional Controls Plan:

Table A.5.1 221-U Facility ROD Institutional Control Requirements (Required During Cleanup Activities) and Table A.5.2 221-U Facility ROD Institutional Control Requirements (Required After Cleanup is Complete)

Tables A.5.1 and A.5.2 to be added, are as follows:

Table A.5.1. 221-U Facility ROD Institutional Control Requirements (Required During Cleanup Activities)

221-U Facility ROD Institutional Control Requirements	How Requirement Is Met (Reference to the Sitewide Institutional Controls Plan Sections)
DOE shall control access to prevent unacceptable exposure of humans to contaminants at the 221-U Facility site addressed in the scope of this ROD until remedy construction is complete. Visitors entering any site areas are required to be badged and escorted at all times. See Figure 7 of the 221-U Facility ROD for a site map showing the extent of the 221-U Facility site and the boundaries of the land use controls. A more detailed map will be developed and included in the RD/RA workplan to be approved by EPA and Ecology.	Section 2.2.2
No intrusive work shall be allowed at the 221-U Facility site unless the EPA and Ecology have approved the plan for such work and that plan is followed.	Section 2.2.3
DOE shall prohibit well drilling at the 221-U Facility site except for monitoring, characterization, or remediation wells authorized in EPA and Ecology approved documents.	Section 2.2.4
Groundwater use at the 221-U Facility site is prohibited, except for limited research purposes and monitoring and treatment authorized in EPA and Ecology approved documents. This prohibition applies until drinking water standards are achieved and EPA and Ecology authorize removal of restrictions. Decision documents for the 200-UW-1 source operable unit and 200-UP-1 groundwater operable unit as well as the Site-wide Institutional Controls Plan will contain the institutional controls and implementing details prohibiting well drilling and	Section 2.2.4

221-U Facility ROD Institutional Control Requirements	How Requirement Is Met (Reference to the Sitewide Institutional Controls Plan Sections)
groundwater use in the U Plant Area and portions of the 200 West Area as defined in those decision documents.	
DOE shall post and maintain warning signs along access roads which caution site visitors and workers of potential hazards from the 221-U Facility site.	Section 2.2.1
In the event of any unauthorized access to the site, such as trespass, DOE shall report such incidents to the Benton County Sheriff's Office for investigation and evaluation of possible prosecution.	Section 2.2.2

Table A.5.2. 221-U Facility ROD Institutional Control Requirements (Required After Cleanup is Complete)

221-U Facility ROD Institutional Control Requirements	How Requirement Is Met (Reference to the Sitewide Institutional Controls Plan Sections)
DOE shall ensure that use of the 221-U Facility site as well as any activities at the site are restricted to industrial use only, consistent with the exposure assumptions used in establishing risk-based cleanup levels for radionuclides and the use of MTCA Method C to calculate industrial cleanup levels for chemicals. A surveillance program shall be maintained to document that risk- and ARAR-based cleanup levels (and the exposure durations upon which they are based) are not exceeded. Furthermore, DOE shall prohibit the development and use of the 221-U Facility site for residential housing, elementary and secondary schools, child care facilities, and playground. These restrictions shall be maintained until the concentration of hazardous substances in the soil and groundwater are at such levels to allow for unrestricted use and exposure.	Section 2.2.3
Activities that would disrupt or lessen the performance of the engineered surface barrier are to be prohibited. The engineered surface barrier is anticipated to cover the area delineated in Figure 6 of the 221-U Facility ROD. These restrictions shall be maintained until the concentration of hazardous substances in	Section 2.2.3

221-U Facility ROD Institutional Control Requirements	How Requirement Is Met (Reference to the Sitewide Institutional Controls Plan Sections)
the soil and groundwater are at such levels to allow for	
unrestricted use and exposure.	, ,
DOE shall maintain an effective vegetative soil layer to promote	Section 2.2.6
the succession of native plants as a feature of the	
evapotranspiration surface barrier and prohibit activities that	
would lessen the effectiveness of the vegetation, barrier, and run	
on/run off controls. These infiltration control measures shall be	
maintained unless (or until) DOE can demonstrate that the	
proposed activity or change in maintenance will result in no	
negative impact on groundwater or river water quality from any	
potential release of contamination from the site and EPA and	
Ecology approve the change.	
No irrigation will be permitted for agriculture or landscaping on	Section 2.2.4
the 221-U Facility site. This infiltration restriction shall be	
maintained unless (or until) DOE can demonstrate that the	
proposed irrigation will have no negative impact on	
groundwater or river water quality from any potential release of	
contamination from the site and EPA and Ecology approve the	
change.	
No intrusive work shall be allowed at the 221-U Facility site	Section 2.2.3
unless the EPA and Ecology have approved the plan for such	
work and that plan is followed. This restriction shall be	,
maintained until the concentration of hazardous substances in	
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	Section 2.2.3
authorized in EPA and Ecology approved documents. This	
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use in the U Plant Area and portions of the 200 West Area as defined in those cecision documents. DOE shall prohibit activities that would damage the monitoring system and its components (e.g., monitoring wells). This restriction shall be maintained until the concentration of hazardous substances in the soil and groundwater are at such levels to allow for unrestricted use and exposure. DOE shall establish and maintain a records system or database that tracks locations and estimated quantities of residual contamination left in place. This restriction shall be maintained until the concentration of hazardous substances in the soil and groundwater are at such levels to allow for unrestricted use and exposure. DOE shall report the location of residual contamination in deed notices and other informational devices. In addition, a copy of any material documenting the location and quantity of residual contamination shall be given to any prospective purchaser/transfere before any transfer or lease. Measures that are necessary to ensure the continuation of land use restrictions or other institutional controls (e.g., proprietary controls such as property suspect to institutional controls required by a CERCLA decision document so that EPA and Ecology can be involved in discussions to ensure that appropriate provisions are included in the conveyance documents to maintain effective institutional controls. If it is not possible for DOE to notify EPA and Ecology at least 6 months before any transfer, sale, or lease, then DOE will notify EPA and Ecology as soon as possible, but no later than 60 days before the transfer, sale, or lease of any property subject to institutional controls. This restriction shall be maintained until the concentration of hazardous substances in the soil and groundwater are at such levels to allow for unrestricted use and exposure. DOE shall report on the effectiveness of institutional controls for this remedy in an annual report, or on an alternative reporting frequency specified by EPA and Ecology	defined in those decision documents. DOE shall prohibit activities that would damage the monitoring system and its components (e.g., monitoring wells). This restriction shall be maintained until the concentration of hazardous substances in the soil and groundwater are at such levels to allow for unrestricted use and exposure. DOE shall establish and maintain a records system or database that tracks locations and estimated quantities of residual contamination left in place. This restriction shall be maintained until the concentration of hazardous substances in the soil and groundwater are at such levels to allow for unrestricted use and exposure. DOE shall report the location of residual contamination in deed notices and other informational devices. In addition, a copy of any material documenting the location and quantity of residual contamination shall be given to any prospective purchaser/transferee before any transfer or lease. Measures that are necessary to ensure the continuation of land use restrictions or other institutional controls (e.g., proprietary controls such as property easements or covenants) shall be taken before any transfer or lease of any property subject to institutional controls required by a CERCLA decision document so that EPA and Ecology can be involved in discussions to ensure that appropriate provisions are included in the conveyance documents to maintain effective institutional controls. If it is not possible for DOE to notify EPA and Ecology at least 6 months before any transfer, sale, or lease, then DOE will notify EPA and Ecology as soon as possible, but no later than 60 days before the transfer, sale, or lease of any property subject to institutional controls. This restriction shall be maintained until the concentration of hazardous substances in the soil and groundwater are at such levels to allow for unrestricted use and exposure. DOE shall report on the effectiveness of institutional controls for this remedy in an annual report, or on an alternative reporting frequency spec		221-U Facility ROD Institutional Control Requirements	How Requirement Is Met (Reference to the Sitewide Institutional Controls Plan Sections)
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221-U Facility ROD Institutional Control Requirements	How Requirement Is Met (Reference to the Sitewide Institutional Controls Plan Sections)
groundwater are at such levels to allow for unrestricted use and exposure.	

New Section 2.2.6 "Barriers" is hereby added to the Sitewide Institutional Controls Plan as follows:

2.2.6 Barriers

The DOE shall maintain and operate barriers as identified in the decision documents. Examples of barriers include fences and engineered barriers such as a multi-layered cover or an evapotranspiration barrier. The purpose of the barriers is to protect the contaminants left behind from intrusion by humans and/or biota and recharge from precipitation or run- on/run-off. For example, a fence would be used to keep the intruders away. An evapotranspiration barrier could consist of vegetative soil layer that promotes native plants. The DOE shall prohibit activities that would lessen the effectiveness of the barrier.

Section 4.2, last paragraph of the Sitewide Institutional Controls Plan is modified as follows:

Note: Struck out text indicates text to be deleted, shaded text indicates text to be added.

Initially the assessments will be were conducted on an annual basis. The first report will be issued within 12 months of approval of this Institutional Controls Plan.

Recommendations from this first assessment and subsequent assessments will be initiated via the RL Baseline Control Process. Subsequent assessments are planned to be completed by the end of each fiscal year, unless otherwise agreed to by the RL, the EPA, and Ecology. Once the assessment process is well-established and the RL has demonstrated the effectiveness of the institutional controls, the frequency of future assessment reports may be modified subject to approval by the EPA and Ecology. Based on the results of the first three assessments and the adequacy of ICs, future assessments will be performed on a five year cycle."